

**Amendments to the Specification:**

Please replace paragraph [0001] with the following amended paragraph:

This application is related to, and claims the benefit of, U.S. Provisional Patent Application No. 60/266,927, filed on February 6, 2001 and entitled "ADSL Repeater with Communication, Control, and Diagnostics." This application also relates to commonly assigned U.S. Patent Application No. 09/569,470, filed on May 12, 2000 and entitled "DSL Repeater," U.S. Patent Application No. 09/610,788, filed on July 6, 2000 and entitled "DSP-Based Repeater for DSL Signals," U.S. Patent Application No. 09/670,475, filed on September 26, 2000 and entitled "Load Coil And DSL Repeater Including Same," U.S. Patent Application No. [[\_\_\_\_]] 10/072,833 filed on [[\_\_\_\_]] February 6, 2002, and entitled "Loop Extender with Selectable Line Termination and Equalization," and U.S. Patent Application No. [[\_\_\_\_]] 10/071,980 filed on [[\_\_\_\_]] February 6, 2002, and entitled "Line Powered Loop Extender with Communications, Control, and Diagnostics." The disclosures of these related applications are hereby incorporated by reference.

Please replace abstract with the following amended abstract:

In accordance with the present invention, a ~~DSL~~ Digital Subscriber Line (DSL) network for improving the transmission of DSL signals over a local loop is disclosed. The DSL network includes a loop extender with communications, control, and diagnostic functionality, and a central office including a ~~DSLAM~~ Digital Subscriber Line Access Multiplexer (DSLAM) and a central office controller coupled to the loop extender via the local loop for controlling the loop extender.